

# Oscillator · VCXO · 3.3 V

## SMD Voltage Control Crystal Oscillator · 7.5 x 5.0 mm

- two pinout versions available
- reflow soldering temperature: 260 °C max.
- ceramic/metal package





### General Data

type		JV75 3.3 V	
frequency range		1.0 ~ 125.0 MHz	
frequency stab	ility over all*	± 25ppm <sup>+</sup> / ± 50ppm	
		see table 1	
current consun	nption	see table 2	
supply voltage V <sub>DC</sub>		3.3 V ± 10%	
frequency pulling range min.		± 50ppm / ± 100ppm⁴/ ± 150ppm³	
pulling control voltage		1.65 V ± 1.65 V	
pulling linearity max.		± 10%	
temperature	operating	-10 °C ~ +70 °C / -40 °C ~ +85 °C	
	storage	-40 °C ~ +85 °C	
output	rise & fall time	see table 3	
	load max.	15pF	
	current max.	4mA	
	low level max.	0.1 x V <sub>DC</sub>	
	high level min.	0.9 x V <sub>DC</sub>	
standby function		yes	
start-up time max.		10ms	
symmetry at 0.5 x V <sub>DC</sub>		45% ~ 55% typ. (40% ~ 60% max.)	

## Table 1: Frequency Stability Code

stability code	В	C			
	± 50 ppm	± 25 ppm			
-10 °C ~ +70 °C	0	0			
-40 °C ~ +85 °C	0	0			
• standard O available					

<sup>\*</sup> includes stability at 25 °C, operating temp. range, supply voltage change, shock and vibration, aging 1st year.

### Table 2: Current Consumption max.

Current at 15pF lo	ad:
1.0 ~ 29.9 MHz	15 mA
30.0 ~ 44.9 MHz	20 mA
45.0 ~ 51.9 MHz	25 mA
52.0 ~ 125.0 MHz	35 mA

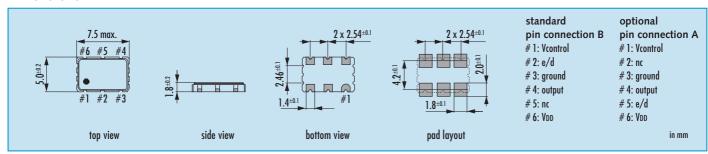
#### Table 3: Rise & Fall Time max.

6.0 ns: 1.0 ~ 39.9 MHz 5.0 ns: 40.0 ~ 125.0 MHz	<b>note:</b> - specific data on request - rise time: $0.1 V_{DC} \sim 0.9 V_{DC}$ - fall time: $0.9 V_{DC} \sim 0.1 V_{DC}$
	- fall fime: 0.9 V <sub>DC</sub> ~ 0.1 V <sub>DC</sub>

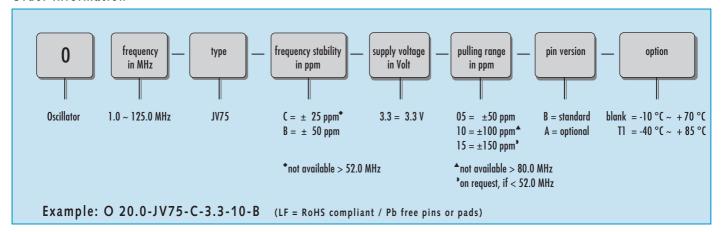
### Recommendation

To avoid phase noise or FM modulation in the output frequency spectrum, we recommend to feed the Vcontrol input pin by a low source impedance.

#### Dimensions



### Order Information

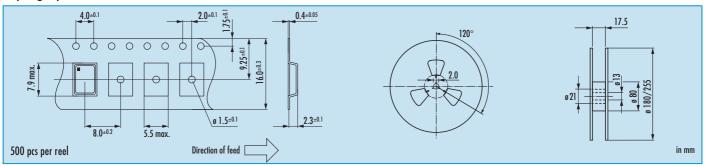




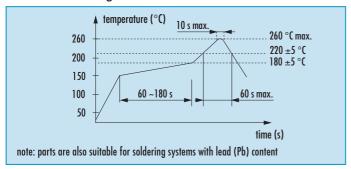
<sup>\*</sup>not available > 52.0 MHz \*not available > 80.0 MHz \*on request, if < 52.0 MHz

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## **Taping Specification**



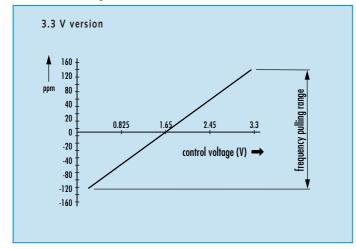
## Reflow Soldering Profile



## Marking



## Control Voltage Characteristic



## Packing Note

- standard packing units are 500 pieces per reel
- non-multiple packing units are only supplied taped / bulk

### Enable / Disable Function

pin #2/#5	pin #4
open or ≥ 0.7 V <sub>DC</sub>	enable
gnd or $\geq 0.3 \text{ V}_{DC}$	high impedance





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